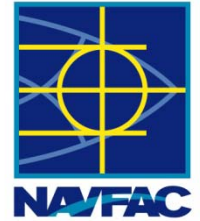




Hunters Point Naval Shipyard BCT Meeting



Remedial Action Update Parcel B (Excluding IR Sites 7 & 18)





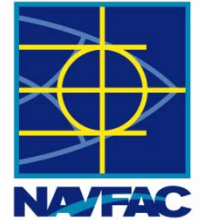
Presentation Overview



- **RA Implementation Update**
 - Soil cover vegetation establishment
 - SVE in Building 123
 - Grading for asphalt cover
 - TPH discovery in soil
- **RA Schedule Update**
- **RA Photos**



RA Implementation Update



Soil Cover Vegetation Establishment

- Completed installation of temporary irrigation system
- Began daily irrigation to start seed germination process

SVE in Building 123

- Draft Final System Startup and Operations Plan, including commissioning test results, baseline sampling results, and RTCs submitted to the BCT for review

Grading for Asphalt Cover

- Continued rough grading using GPS-guided motorized graders (90% complete)
- Fine grading and paving scheduled to begin on July 8



RA Implementation Update

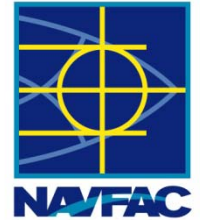


TPH Discovery in Soil

- On June 5, ERRG discovered petroleum contamination in soil while excavating swale in Parcel B (as part of rough grading for asphalt cover)
- Contamination was located within the footprint of the swale located between Building 130 and the Parcel B/C boundary (in the central portion of Parcel B)
- Contamination appeared to be shallow and limited to a 60' x 10' area within the footprint of the swale cut
- Notified RWQCB upon discovery
- The response action was implemented rapidly to prevent durable cover installation delays (next slide describes response actions)



RA Implementation Update

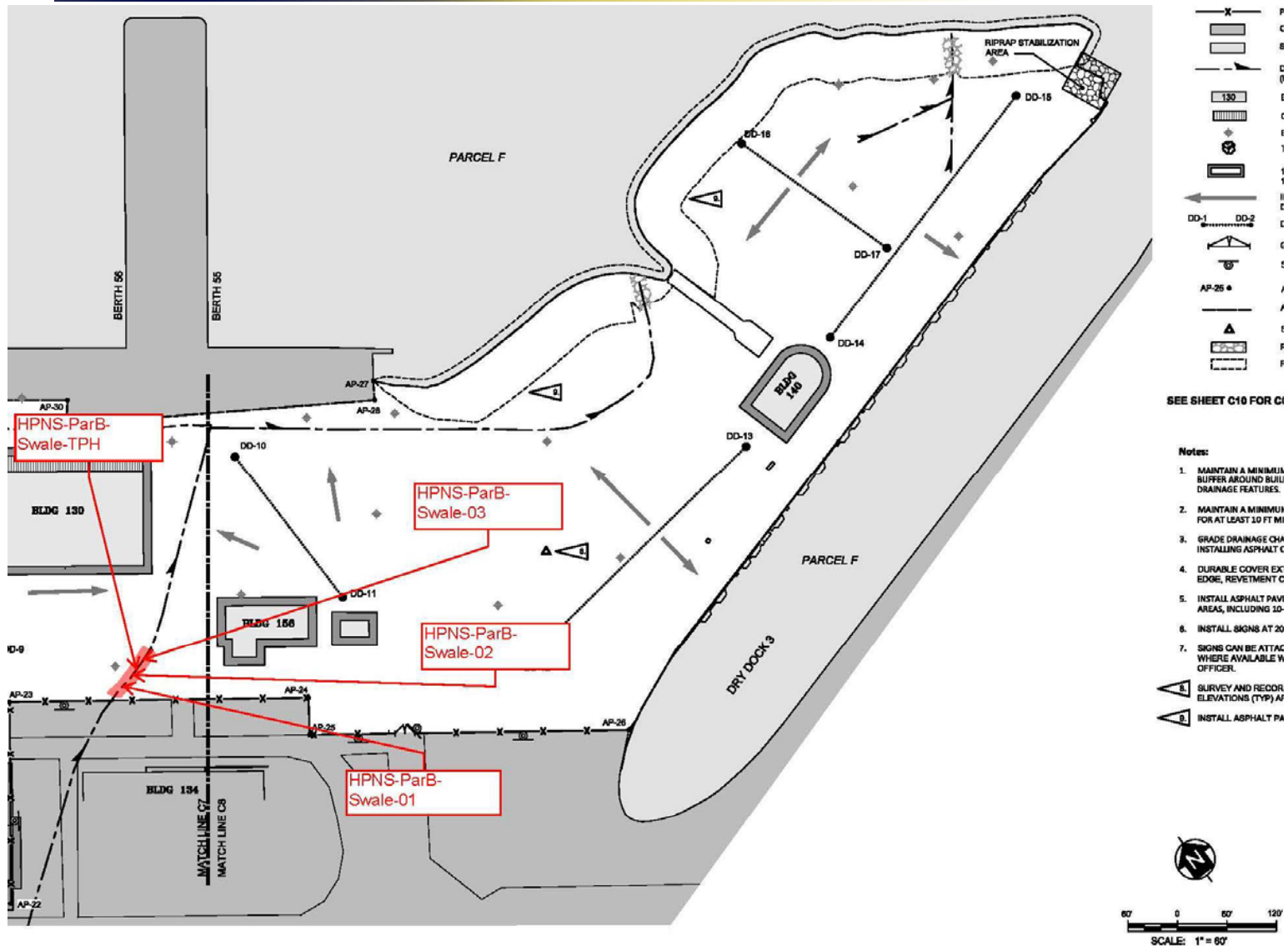
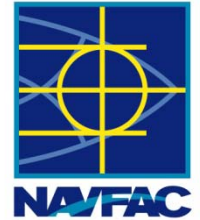


TPH Discovery in Soil (cont.)

- Response action included:
 - Exploratory trenching to assess depth, thickness, and extent of contamination (limited to 1-foot thick lens in surficial soil)
 - Collection of a sample of the most visually contaminated soil (concentrations of diesel range organics (DRO) above New Preliminary Petroleum Screening Criteria)
 - Excavation of all visibly contaminated soil and stockpiling for characterization and offsite disposal (approx. 100 cy)
 - Confirmation sampling along the bottom of the swale cut (1 sample per 20 feet) to confirm adequate removal of contamination
 - Future: TPH discovery and response action will be described and documented in the RACR



RA Implementation Update





RA Implementation Update

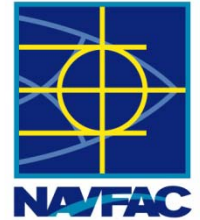


Table 1. Soil Sampling Results - Swale Excavation in Parcel B

SAMPLE ID ^{1,2}	TPH GRO (mg/Kg)				Exceeds? Y/N	TPH DRO (mg/Kg)				Exceeds? Y/N	TPH MO (mg/Kg)				Exceeds? Y/N	Total TPH ⁴ (mg/Kg)		Exceeds? Y/N
	Result	LOQ	LOD	Screening Criterion ³		Result	LOQ	LOD	Screening Criterion ³		Result	LOQ	LOD	Screening Criterion ²		Result	Screening Criterion ³	
HPNS-PARB-SWALE-TPH	200	16	1.0	315	N	5,400	22	5.7	1,500	Y	1,300	110	26.0	1,850	N	6,900.0	3,500	Y
HPNS-PARB-SWALE-01	ND (0.11 U)	1.1	0.059	315	N	43	3.4	0.94	1,500	N	140	17	2.6	1,850	N	183.1	3,500	N
HPNS-PARB-SWALE-02	5.8	1.1	0.061	315	N	760	3.4	0.89	1,500	N	210	17	4.1	1,850	N	975.8	3,500	N
HPNS-PARB-SWALE-03	1.2	1.1	0.058	315	N	770	2.2	0.58	1,500	N	100	11	2.7	1,850	N	871.2	3,500	N

Notes:

1. HPNS-PARB-SWALE-TPH = Sample of TPH-impacted soil
2. HPNS-PARB-SWALE-01, -02, -03: Bottom confirmation samples (post-excavation; 20-foot spacing)
3. Screening criteria for shallow soil, residential reuse, from the New Preliminary Screening Criteria and Petroleum Program Strategy (Shaw Environmental, Inc., 2007).
4. Total TPH is the sum of all TPH fractions (i.e., [TPH GRO] + [TPH DRO] + [TPH MO])

LOD: Limit of detection

LOQ: Limit of quantitation

ND: Not detected

TPH GRO: Gasoline C7-C12

TPH DRO: Diesel C10-C24

TPH MO: Motor Oil C24-C36

U: Not detected at or above limit of detection

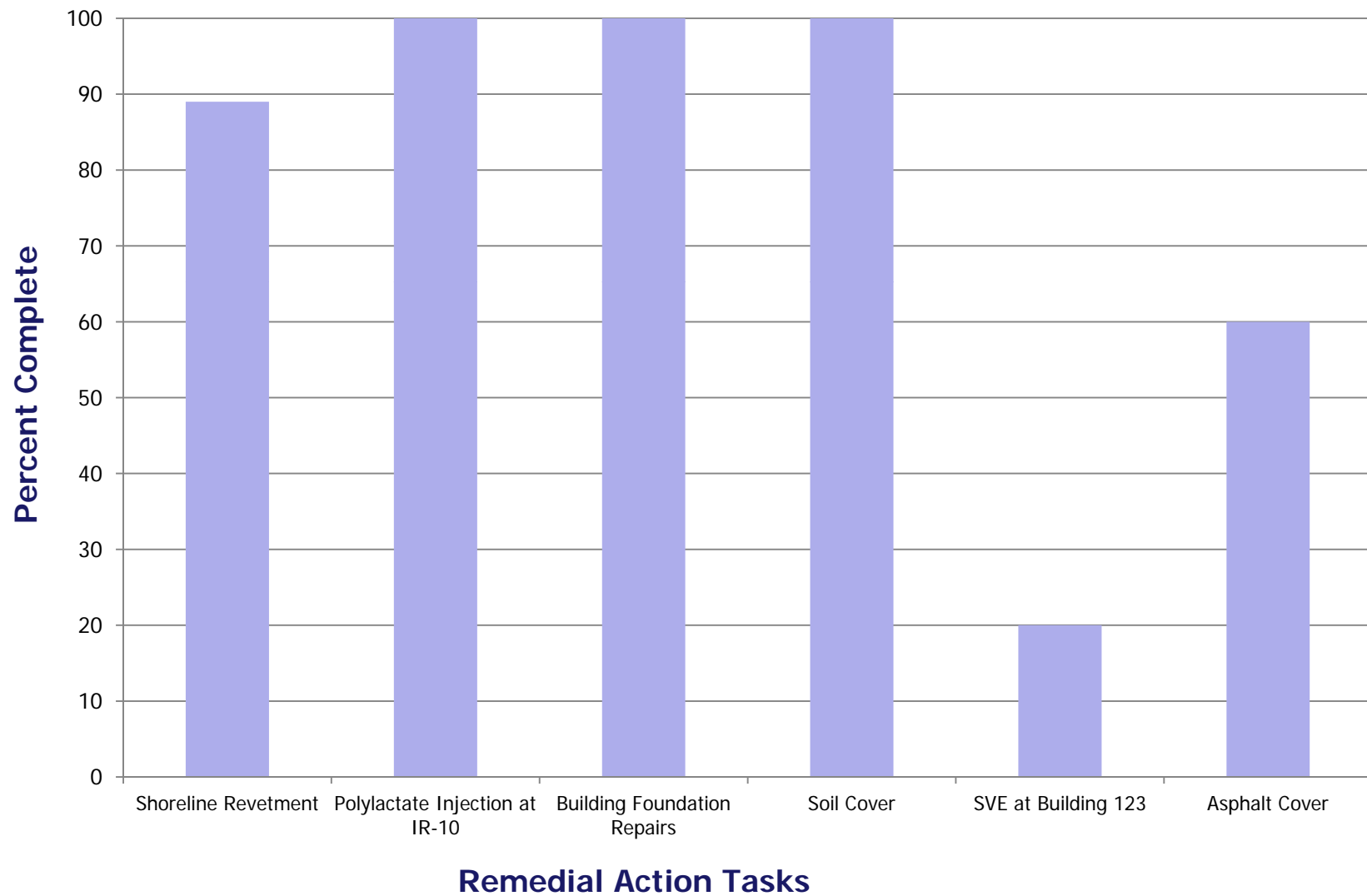
DRO in contaminated soil sample = 5,400 mg/Kg
(> 1,500 mg/Kg screening criterion)

Total TPH in contaminated soil sample = 6,900 mg/Kg
(> 3,500 mg/Kg screening criterion)

No screening
criteria
exceedances in
confirmation
samples

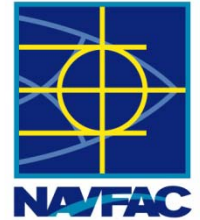


RA Implementation Update





RA Schedule Update

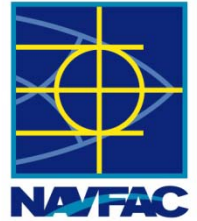


Construction Schedule

- | | |
|---|-----------------------------|
| • Mobilization and Site Preparation: | Nov 5, 2012 – Nov 12, 2012 |
| • Revetment Construction: | Nov 12, 2012 – Jan 17, 2013 |
| • Polylactate Injection: | Feb 22, 2013 – Mar 3, 2013 |
| • Foundation Inspections and Repairs: | Jan 17, 2013 – May 5, 2013 |
| • SVE System Setup and Operation: | Mar 4, 2013 – TBD |
| • Soil Cover Installation: | Feb 22, 2013 – Jun 4, 2013 |
| • Grading: | May 6, 2013 – July 5, 2013 |
| • Asphalt Cover Installation: | July 8, 2013 – Sep 6, 2013 |
| • Fence and Settlement Monument Installation: | Sep 9, 2013 – Sep 13, 2013 |
| • Site Cleanup, Final Survey, and Demobilization: | Sep 9, 2013 – Sep 13, 2013 |
| • Revetment Construction at Combined Sites: | TBD |



Operation of the Temporary Irrigation System





Rough Grading of Subgrade with GPS-Guided Motorized Graders





Placement and Grading of Aggregate Base Course



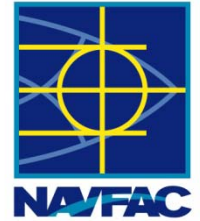


Compaction of the Aggregate Base Course



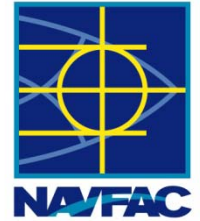


Visibly Impacted Soil Within Swale Excavation





Test Trench to Delineate Depth, Thickness, and Extent of TPH-Impacted Soil within Swale Excavation





Removal of TPH-Impacted Soil from Swale

